


# DIGITAL VIDEO RECORDER

## QUICK START

Please read instructions thoroughly before operation and retain it for future reference.

# 1. FRONT AND REAR PANELS

## 1.1. Front Panel

- 1) 1~4  
Press one of the channel number buttons to select and display the channel you want.
- 2) LED Indicators  
HDD: The HDD is reading or recording.  
TIMER: Timer recording is activated.  
PLAY: The DVR is in the playback mode.  
POWER: The DVR is powered on.
- 3) MENU  
Press to enter the main menu.
- 4) ENTER  
Press to confirm the setting.
- 5) LIST  
To quickly search the recorded files by events, press “LIST” to show the following lists:  
RECORD LIST      List all the manual recording data.  
MOTION LIST      List all the motion recording data.  
TIMER LIST        List all the timer recording data.  
FULL LIST         List all the recording data.  
QUICK SEARCH     Enter the time search menu. For details, please refer to “4.1 QUICK SEARCH” in the user manual.  
Choose & enter the list you want. Select one event item, and press “ENTER” to start video playback.
- 6) SLOW  
In the playback mode, press to show slow playback.
- 7) ZOOM  
In the live or playback mode, press to enlarge the image of the selected channel.
- 8)   
Press to switch to 4-cut display mode.
- 9) SEQ.  
Press to display each channel one by one in the full screen, and press again to escape the sequence mode.
- 10) SNAP  
Press “SNAP” to take a snapshot.

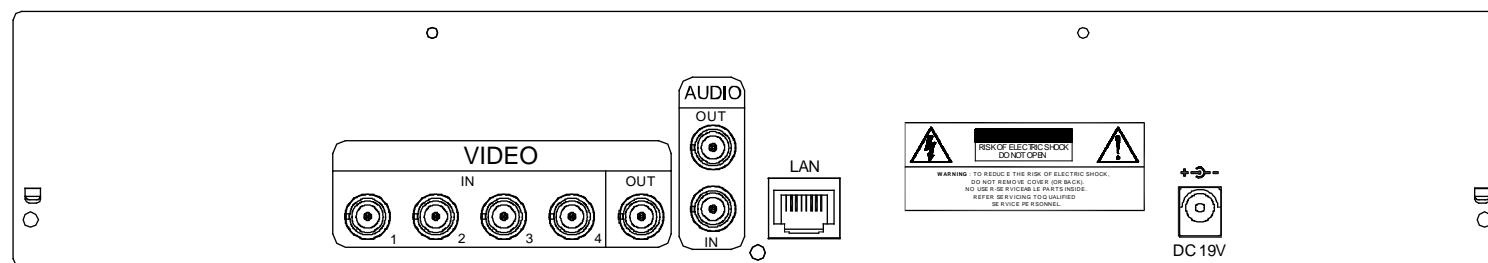
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**Note:** Before taking a snapshot, insert a compatible USB flash drive into the DVR USB port for snapshot saving. For the compatible USB flash drive list, please refer to “APPENDIX 2” in the user manual.

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- 11) PLAY  
Press to playback the recorded data.
- 12) PAUSE / STOP / REW / FF  
In the playback mode, press one of these buttons to pause / stop / fast rewind / fast forward the playback file.
- 13) ▲ / ▼ / ◀ / ▶  
Press one of these buttons to move the highlight up / down / left / right.  
In the function setting mode, press ▲ / ▼ to change the setting value.
- 14) USB port  
To quickly backup or upgrade firmware/OSD, you can insert a compatible USB flash drive into this USB port.  
Before using the USB flash drive, please use your PC to format the USB flash drive as “FAT32” first.

## 1.2. Rear Panel



### 1) VIDEO IN (1 ~ 4)

INPUT: Connect to video sources, such as cameras.

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**Note:** If you want to make a video backup with audio, please make sure whether your DVR supports the audio function, and connect audio cameras to the channels which support the audio function.

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### 2) VIDEO OUT

Connect to MAIN monitor for video output.

### 3) AUDIO OUT

Connect to an audio device, such as a speaker.

### 4) AUDIO IN

Connect to an audio source, such as a camera equipped with the audio function.

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**Note:** The camera must also be connected to VIDEO INPUT 1 for the audio recording function to take effect.

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### 5) LAN

Connect to Internet by LAN cable.

### 6) LINK ACT.

When your DVR is connected to the Internet, this LED will be on.

### 7) DC 19V

Connect to the supplied adapter.

## 2. CONNECTION AND SETUP

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**Note:** The DVR is designed to automatically detect the video system of the connected cameras (NTSC or PAL). To make sure the system detection is correct, please check if the cameras are connected to the DVR and power-supplied before the DVR is powered on.

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### 2.1. HDD Installation

The HDD must be installed before the DVR is on.

Step 1: Loosen the screws on the upper cover and open the upper cover of the DVR.

Step 2: Remove the HDD bracket.

Step 3: With the PCB side facing up, connect the HDD to the power connector and the DATA BUS connector.

Step 4: Slide and fasten the HDD to the HDD bracket, two screws for each side.

Step 5: Replace the HDD bracket back to the DVR base.

Step 6: Close the upper cover of the DVR, and fasten all the screws you loosened in Step 1.

### 2.2. Camera Connection

The cameras must be connected and power-supplied **BEFORE** the DVR is powered on. The DVR will automatically detect the video system of the connected camera(s) (NTSC / PAL), and switch itself to the correct system.

#### 1) Video cable connection

Connect the camera video output to the DVR video input port with a coaxial cable or RCA line with BNC connector.

2) Audio cable connection (For cameras which supports audio recording only)

Connect the camera audio output to the DVR audio input port with a coaxial cable or RCA line with BNC connector.

3) Power connection

Connect the camera with indicated power supply and make sure it's power-supplied.

## 2.3. Power Setup

This device should be operated only with the type of power source indicated on the manufacturer's label. Connect the indicated AC power cord to the power adapter, and plug into an electrical outlet. The power LED will be on.

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**Note:** Before the DVR is powered on, make sure the cameras are connected and power-supplied for the detection of the camera video system to be correct.

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**Note:** To ensure that your DVR works constantly and properly, it's recommended to use an UPS, Uninterruptible Power Supply, for continuously operation. (Optional)

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## 2.4. Date and Time Setting

Before operating your DVR, please set the date and time on your DVR FIRST.

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**Note:** Please DO NOT change the date or time of your DVR after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all HDD data, and start recording again.

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Press "MENU" and enter the password to go to the menu list. The default admin password is 0000. Move to "DATE" and you can set the date / time / daylight saving in the "DATE" menu list.

MENU
QUICK SEARCH
RECORD
TIMER
<b>DATE</b>
ADVANCE

DATE	
DATE	2008 / FEB / 15 19 : 15 : 27
FORMAT	Y/M/D
DAYLIGHT SAVING	OFF
PLEASE CONSULT YOUR INSTALLER FOR ADVANCE SETTING	
↑↓ SELECT   ← BACK   → NEXT   ↵ ENTER	

## 2.5. Password Setting

Press "MENU" and enter the password to go to the menu list. Then, Move to "ADVANCE" to enter the advanced setting menu.

In the "ADVANCE" menu, move to "SYSTEM". Select "PASSWORD" and press "ENTER" to enter the submenu to set the password (four digits). The default admin password is 0000.

ADVANCE
CAMERA
DETECTION
DISPLAY
ALERT
<b>SYSTEM</b>
NETWORK
BACKUP
HDD INFO

SYSTEM	
PASSWORD	XXXX
RESET DEFAULT	RESET
CLEAR HDD	HDD-MASTER-1
UPGRADE	START
AUTO KEYLOCK	NEVER
LANGUAGE	ENGLISH
VIDEO FORMAT	NTSC
VERSION	1167-1012-1022-1017

# 3. BASIC OPERATION

## 3.1. Live Page



Icon	Function	Icon	Function	Icon	Function	Icon	Function
	Key lock		Key unlock		1 <sup>st</sup> live audio channel		1 <sup>st</sup> playback audio channel
	Audio channel unselected		Digital zoom mode		Digital zoom unselected		Timer recording
	Motion		Recording		HDD overwrite		

## 3.2. Recording

When the recording and the pre-alarm function are activated, this device will overwrite 8GB data from the oldest for continuous recording without notice.

### 1) Manual Recording Icon

By defaults, when the DVR is properly connected with cameras and the HDD is installed, you can see (recording) on the screen.

### 2) Event Recording Icon

When the motion detection function is activated, you will see (motion) on the screen for any motion event.

### 3) Timer Recording Icon

When the timer record is activated, you will see the LED light of "Timer" is on, and (timer) on the screen.

## 3.3. Playback

Press "PLAY" on the DVR control panel, and the device will playback the latest recorded video.

**Note:** There must be at least 8192 images of recorded data for playback to work properly. If not, the device will stop playback. For example, if the IPS is set to 30, the recording time should be at least 273 seconds (8192 images / 30 IPS) for the playback to work properly.

### 1) Fast Forward / Fast Rewind

You can increase the speed for fast forward and rewind on this device. In the playback mode: Press "FF" once to get 4X speed forward and press twice to get 8X speed, etc. And the maximum speed is 32X. Press "REW" once to get 4X speed rewind and press twice to get 8X speed, etc. And the maximum speed is 32X.

**Note:** During playback, the image size of the recorded data will be shown on the screen.

2) Pause / Image Jog

Press "PAUSE" to pause the playback.

In the pause mode:

Press "▶" once to get one frame forward.

Press "◀" once to get one frame rewind.

3) Stop

Press "STOP" under the playback mode, and the screen of this device will return to live monitoring mode.

4) Slow Playback

Press "SLOW" to get 1/4X speed playback and press twice to get 1/8X speed playback.

### 3.4. Search

1) Search by List

To quickly search the recorded files by events, press "LIST" to show the following lists:

RECORD LIST      List all the manual recording data.

MOTION LIST      List all the motion recording data.

TIMER LIST        List all the timer recording data.

FULL LIST         List all the recording data.

QUICK SEARCH     Enter the time search menu. For details, please refer to "4.1 QUICK SEARCH" in the user manual.

Choose & enter the list you want. Select one event item, and press "ENTER" to start video playback.

2) Search by Time

Press "MENU", and select "QUICK SEARCH" to enter the quick time search menu. You can search any specific events by time (Year / Month / Day / Hour / Min) and directly play the file you find.

### 3.5. Firmware / OSD Upgrade

By using USB flash drive

Step 1. Format the USB memory device as FAT 32 format first.

Step 2. Get the upgrade files from your distributor, and save the upgrade files in your USB flash device (do not change the file name).

Step 3. Insert your USB flash drive into the USB port. Wait till the DVR detects your USB flash drive.

Step 4. Press "MENU", and move to "ADVANCE" → "SYSTEM". Move to "UPGRADE" → "START", and press "ENTER".

Step 5. Select "YES", and press "ENTER" to confirm the upgrade.

Step 6. Wait till the DVR is rebooted and initialized.